

CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and the applicant reserves the right to claim this subject matter in a continuing application:

1. (Currently amended) A scanning method applicable for use in a ~~flatbed~~ scanner having ~~an original~~ a document plane for ~~placing supporting~~ a document, the method comprising:
~~providing a plane light source with a distribution range covering a region of the document to be scanned;~~
~~using an optical scan module of the flatbed scanner to scan scanning the original document plane to read and obtain the a distribution range of the plane a light source, the distribution range defining a first area of the document plane; and~~
~~using the optical scan module to scan the region scanning a second area of the document plane covered by the document distribution range to extract an image of the document, the second area being smaller than the first area.~~
2. (Currently amended) The method according to claim 15, ~~where disposing the transparent document comprises disposing the transparent document at an arbitrary position with an further comprising changing an orientation of the distribution range to correspond with the arbitrary angle on of the original document plane.~~
3. (Currently amended) The method according to claim 1, ~~where the orientation of the distribution range is changed by an angle offset from a moving direction of a scan module providing the plane light source includes providing an external transparency adapter.~~
4. (Currently amended) The method according to claim 1, ~~where the first area of the document plane is as large as a scan window providing the plane light source includes providing the external transparency adapter over the original document plane.~~

5. (Currently amended) The method according to claim 1, where ~~providing the plane light source includes providing comprises~~ a built-in transparency adapter.

6. (Currently amended) The method according to claim 5, where ~~the distribution range is obtained from a preview scan providing the plane light source includes providing the built-in transparency adapter over the original document plane.~~

7. (Currently amended) The method according to claim 1, further comprising where using the optical scan module to scan the original document plane to read and obtain the distribution range includes scanning a calibration window to calibrate a brightness of the plane light source, wherein the calibration window is located within the distribution range.

8. (Currently amended) A method of capturing a scanning position, ~~applicable to in~~ a flatbed scanner with transparent scanning ~~function functionality~~, the flatbed scanner having an optical scan module and an original document plane for ~~placing supporting~~ a transparent document, the optical scan module moving ~~along generally parallel~~ to the original document plane, the method comprising:

providing a plane light source with a distribution range covering a region to be scanned of the ~~transparent~~ document; and

using the optical scan module to scan the original document plane once to read the distribution range, so as to capture the scanning position.

9. (Currently amended) The method according to claim 8, further comprising disposing the ~~transparent~~ document at an arbitrary position with an arbitrary angle on the original document plane.

10. (Previously Presented) The method according to claim 8, where providing the plane light source includes providing an external transparency adapter.

11. (Previously Presented) The method according to claim 8, where providing the plane light source includes providing an external transparency adapter over the original document plane.

12. (Previously Presented) The method according to claim 8, where providing the plane light source includes providing a built-in transparency adapter.

13. (Previously Presented) The method according to claim 8, where providing the plane light source includes providing a built-in transparency adapter over the original document plane.

14. (Previously Presented) The method according to claim 8, where using the optical scan module to scan the original document plane further comprises scanning a calibration window to calibrate brightness of the plane light source.

15. (Currently amended) The method according to claim 1,
~~where the document is a transparent document; and~~
~~further comprising disposing the transparent~~ the second area of the document plane
corresponds to an orientation of the document positioned at an arbitrary angle on the original
document plane.

16. (Currently amended) The method according to claim 4-17, where ~~using the optical~~
~~scan module to scan the region covered by the distribution range~~ only the second area of the
document plane is scanned subsequent to the preview scan to extract the image of the document
~~scans solely the region covered by the distribution range~~.

17. (Currently amended) The method according to claim 4-6, where the second area
of the document plane is scanned subsequent to the preview scan ~~using the optical scan module~~
~~to scan the original document plane~~ ~~comprises moving the optical scan module along the original~~
~~document plane~~.

18. (Currently amended) The method according to claim 8, further comprising subsequent to using the optical scan module to capture the scanning position, using the optical scan module to scan the region covered by the distribution range to extract an image of the transparent document.

19. (Currently amended) The method according to claim 18, where using the optical scan module to scan the region covered by the distribution range to extract the image of the transparent document scans solely the region covered by the distribution range.

20. (Previously Presented) The method according to claim 8, where using the optical scan module to scan the original document plane comprises moving the optical scan module along the original document plane.

21. (Previously Presented) A scanning apparatus comprising:

an original document plane;

an optical scan module; and

where the optical scan module is enabled to scan a transparent document by first performing a preview scan of the original document plane to obtain a distribution coverage of a plane light source, and subsequently performing a scan of a region within the distribution coverage of the plane light source to extract the image of the transparent document.

22. (Previously Presented) The scanning apparatus of claim 21, where the optical scan module is further enabled to scan a reflective document.

23. (Previously Presented) The scanning apparatus of claim 21, where the optical scan module is further enabled to calibrate brightness of the plane light source via a calibration window.

24. (Previously Presented) The scanning apparatus of claim 21, further comprising the plane light source.

25. (Previously Presented) The scanning apparatus of claim 24, where the plane light source comprises an external transparency adapter, the external transparency adapter disposed over the original document plane.

26. (Previously Presented) The scanning apparatus of claim 24, where the plane light source comprises a built-in transparency adapter, the built-in transparency adapter disposed over the original document plane.

27. (Previously Presented) The scanning apparatus of claim 24, where the plane light source is mounted to a top lid of the scanning apparatus.

28. (Previously Presented) The scanning apparatus of claim 21, where the distribution coverage is as large as a scan window of the scanning apparatus.

29. (Previously Presented) The scanning apparatus of claim 21, where the optical scan module is further enabled to perform the scan to extract the image of the transparent document solely within the distribution coverage of the plane light source.

30. (Previously Presented) The scanning apparatus of claim 21, where the scanning apparatus is operable to scan the transparent document without use of a transparent film holder.